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25X1A TALENT KEYHOLE COMINT  
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COMMITTEE ON IMAGERY REQUIREMENTS AND EXPLOITATION

**NRO & USAF REVIEWS COMPLETED** COMIREX-M-52  
17 October 1968

The following is an index of the Minutes of the 17 October 1968 COMIREX Meeting:

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IDEALIST/TACKLE  
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GROUP 1  
Excluded from automatic  
downgrading and declassification

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Section V (Status of Recent COMIREX Papers)

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COMIREX-M-52

COMMITTEE ON IMAGERY REQUIREMENTS AND EXPLOITATION

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Minutes of Meeting Held in Auditorium

1000-1300, Thursday, 17 October 1968

PRESIDING

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Chairman

MEMBERS PRESENT

Mr. L. A. Moyer, Jr., State

Col. C. E. Phipps, AFNIN

Col. C. C. Clayton, OACSI  
Capt. S. E. Sloan, ONI

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CONSULTANTS PRESENT

Mr. E. H. Manley, OACSI  
Lt. Col. L. B. Pollard, OACSI  
Mr. J. C. St. Cyr, OACSI  
Mr. B. E. Hultz, FTD  
Mr. McPeak, FTD

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ative Secretary  
fice/Ch/Committee on Imagery Requirements  
d Exploitation  
Imagery Collection Requirements Subcommittee  
Ch/Imagery Exploitation Subcommittee  
Exploitation Research and Development  
committee  
tional Imagery Data Base Working Group  
pping, Charting, and Geodesy Working

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Special Briefings

FTD Methodology for Analysis of Photography (S)

1. The Chairman introduced Mr. Hultz and Mr. McPeak, reminding COMIREX that the briefing to be given by Mr. Hultz was intended to complement [ ] presentation of the week before. Mr. Hultz introduced his briefing with an illustrated description of the methodology employed at FTD. Mr. Hultz emphasized that at FTD one man is responsible for producing the photo analysis report and providing the required detailed or engineering drawings from the photography and mensuration of the photography. Mr. Hultz provided considerable information on the parameters of the various equipments, the accuracy, how the information is transmitted to the computer, how it is codified, and how it is typed out at the terminal. Mr. Hultz noted that the whole process from computer to print-out at the terminal is accomplished in about eight seconds and that it is possible to have about 25 type-out machines at the terminal. In further depicting what is accomplished by the analysts/computer team, Mr. Hultz observed that the FTD emphasis is on maximum automation compatible with accuracy and efficiency.

2. A succession of photographs accompanied by the engineering drawings or information used in making these drawings was presented by Mr. Hultz. The presentation emphasized not only the benefits of high resolution photography but the ever increasing efficiency of the analytical process. Mr. Hultz showed how the eminent knowledge of electronic components was made use of by those responsible for countermeasures. He concluded this section with comments as to how FTD had made use of the metric trap in analyzing parade photography. In terms of the future Mr. Hultz showed a picture and described a cathode ray display console. This console will provide not only a rapid display but fine detailing; from it, it should be possible to do editorial work and subsequently produce hard copy.

25X1A 3. In reply to a question from the Chairman as to how the FTD techniques compare to those at NPIC as presented by [ ], Mr. Hultz observed that FTD is turning more and more towards the analytical approach. He admitted that, while the analytical approach is used primarily for aerial photography, the orthographic has been the methodology used principally to analyze hand-held photography. Mr. Hultz emphasized that while the FTD approach is becoming more analytical it does take advantage of graphical inputs. Members were reminded of the early phases of the briefing, the variety of equipments used including those developed especially for FTD, and the general emphasis on automation.

Determining Required Characteristics of Imagery For Mensuration  
(S)

25X1A 4. [ ] prefaced his briefing by noting that the preceding presentations by [ ] of NPIC and Mr. Hultz of FTD have established a broad understanding and appreciation of how mensuration tasks are performed on imagery. However, the problem that faces the community is to determine what mensuration tasks must be performed and what type of imagery must be collected to allow for their satisfaction. Within this context, [ ] felt it was incumbent to understand and appreciate the steps necessary to arrive at a well reasoned answer to the question: "What are the required imagery characteristics to allow for satisfaction of mensuration requirements?"

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7. Following some further discussion and elucidation, the Chairman summarized his feelings in terms of the urgent need for better dialogue between the intelligence analyst and the imagery exploitation elements who have been measuring everything from rivets to airfields against a general request to "provide measurements as accurately as possible". [ ] urged that the EXSUBCOM do everything possible to further mutual education and produce meaningful EEI's for mensuration. [ ] also emphasized the imperative need for explicit requirements. The Chairman concluded by again strongly urging that priority be given to achieving agreement on the target delineation form as one of the principal contributions to developing meaningful EEI's for mensuration.

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Section I (Approval of Minutes, Briefings, and Reports on Operations)

Approval of Minutes

(UNCL)

1. COMIREX-M-49 and M-50 were approved subject to changing M-50, page 20, lines 1 and 2, as follows:

Line 1 -- add "under" prior to the word "developed"

Line 2 -- strike the word "under"

Operational Briefing--Satellite

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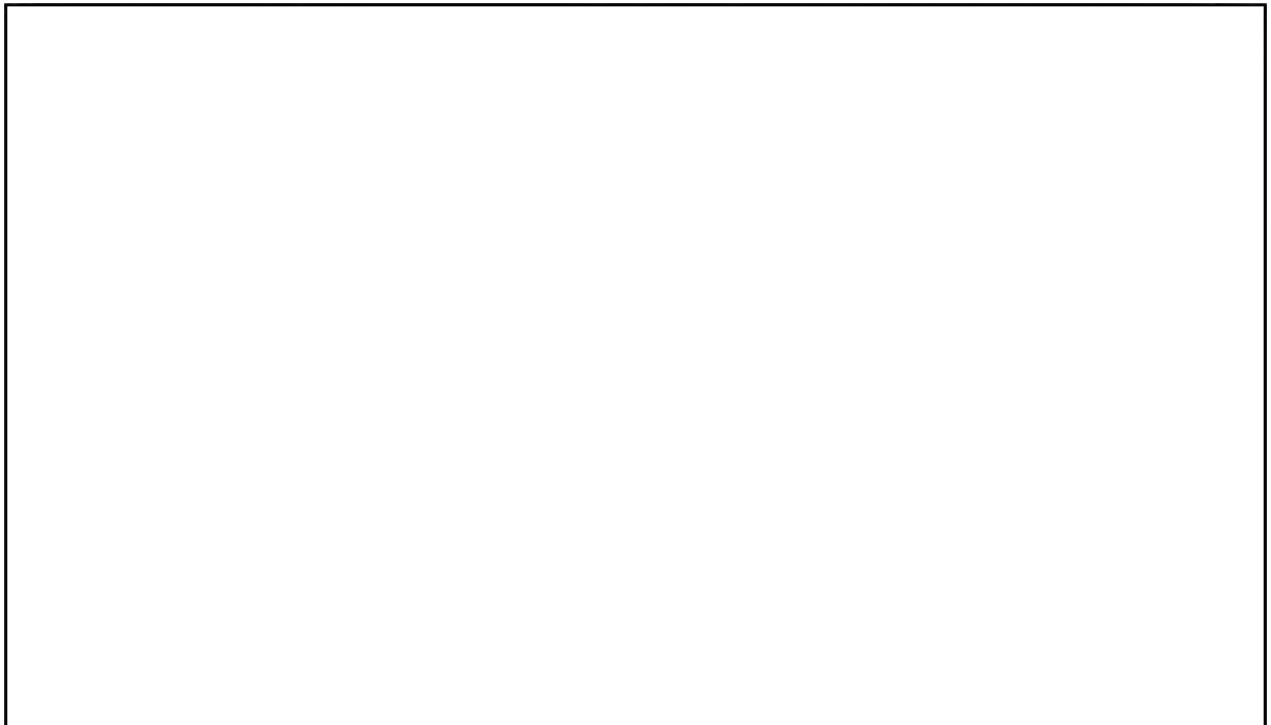
[ ]

CCR,

[ ]

2. Satellite operations and schedule as of 17 October were reported by [ ] as follows:

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[ ]

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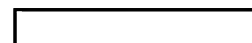
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CORONA

1105 - Scheduled 30 October 1968  
Estimated 1st bucket recovery (9 days) - 8 Nov, 2230Z  
Estimated 2nd bucket recovery (9 days) - 17 Nov, 2230Z  
Film processing/distribution:  
    Estimated arrival 1st bucket at Eastman Kodak -  
        9 Nov, 1800Z  
    Estimated arrival 1st bucket Priority 1 in D.C. area -  
        12 Nov, 1600Z  
    Estimated arrival 1st bucket Priority 2 in D.C. area -  
        13 Nov, 1600Z  
    Estimated arrival 2nd bucket at Eastman Kodak -  
        18 Nov, 1800Z (Processing to begin 21  
                            November at Eastman Kodak)  
    Estimated arrival 2nd bucket Priority 1 in D.C. area -  
        24 Nov, 1600Z  
    Estimated arrival 2nd bucket Priority 2 in D.C. area -  
        25 Nov, 1600Z  
Projected stereo coverage:  
    1st bucket - Land area - 2.75 million sq. n.m.  
                    Targets - Approximately 2,400  
    2nd bucket - Land area - 2.75 million sq. n.m.  
                    Targets - Approximately 2,400



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1106 - Scheduled 11 December 1968

Estimated 1st bucket recovery - 18 Dec, 2230Z

Estimated 2nd bucket recovery - 26 Dec, 2230Z

Film processing/distribution:

Estimated arrival 1st bucket at Eastman Kodak -

19 Dec, 1800Z

Estimated arrival 1st bucket Priority 1 in D.C. area -

22 Dec, 1600Z

Estimated arrival 1st bucket Priority 2 in D.C. area -

23 Dec, 1600Z

Estimated arrival 2nd bucket at Eastman Kodak -

27 Dec, 1800Z

Estimated arrival 2nd bucket Priority 1 in D.C. area -

30 Dec, 1600Z

Estimated arrival 2nd bucket Priority 2 in D.C. area -

31 Dec, 1600Z

Projected stereo coverage:

1st bucket - Land area - 2.75 million sq. n.m.

Targets - Approximately 2,400

2nd bucket - Land area - 2.75 million sq. n.m.

Targets - Approximately 2,400

1049 - Scheduled 29 January 1969

Estimated 1st bucket recovery - 6 February 1969

Estimated 2nd bucket recovery - 14 February 1969

1107 - Scheduled 12 March 1969

Estimated 1st bucket recovery - 21 March 1969

Estimated 2nd bucket recovery - 30 March 1969

1050 - Scheduled 14 May 1969

Estimated 1st bucket recovery - 22 May 1969

Estimated 2nd bucket recovery - 30 May 1969

NRO  
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Report on Aircraft Activities--Far East

[ ] T-KH, I/T)

3. [ ] confirmed that there had been no [ ] or IDEALIST/TACKLE activities over China and [ ] reported that there had been three GIANT SCALE missions over North Vietnam during the period 11-17 October:

<u>Date</u>	<u>Mission</u>	<u>Areas/Targets</u>	<u>Remarks</u>
13 Oct	GS065	Cambodia	Operational test completion
16 Oct	GS066	Dien Bien Phu, Yen Bai, Tuyen Quang, Nam Dinh, Vinh Rtes 10, 1A, RRs 4, 1	Results unknown
17 Oct	GS067	Kien An Afld, Kep Afld, Dien Bien Phu Afld, Hop Lac Afld	Aborted after one pass

4. [ ] reported that in the 11-17 October period there had been five successful [ ] missions and that one mission was lost. Details are given below:

<u>Date</u>	<u>Mission</u>	<u>Areas/Targets</u>	<u>Remarks</u>
12 Oct	Q837 (low)	Seg Rte 7A, NE RR, Yen Vien RR Yd, Gia Lam Afld, Hanoi Port, Bac Mai	Successful, recovered from water
13 Oct	Q212 (high)	Cam Pha Port, Hon Gai Port, Hanoi, RR and Hwy Hanoi-Haiphong, Haiphong Port	Successful, recovered from water

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[REDACTED] Activities cont.

<u>Date</u>	<u>Mission</u>	<u>Areas / Targets</u>	<u>Remarks</u>
13 Oct	Q224 (high)	Rtes 10, 1; RR Nam Dinh-Thanh Hoa; RR and Hwy Thanh Hoa-Vinh, Vinh-DMZ; Thanh Hoa Area, Ben Thuy Port	Successful, MARS
15 Oct	Q834 (low)	Nam Dinh TPP, Nam Dinh Transp Pt., Set RR 4, Phu Ly RR Yd, Bai Thuong Afld	Lost
17 Oct	Q715 (low)	Thanh Hoa Transp Pt., Thanh Hoa RR Bypass, Bai Thuong Afld	Successful, MARS
17 Oct	Q245 (high)	Bac Mai Afld, Gia Lam Afld, Hanoi Complex, Yen Vien RR Yd, Phuc Yen Afld, Kep Afld, Hon Gai Port, Cam Pha Port	Successful, MARS
Successful 5 Lost 1			

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5. [REDACTED] reported coverage obtained of selected South China and North Vietnam targets and areas as follows:

a. Coverage of Lines of Communications (LOC) pertinent to the introduction of Chinese forces into North Vietnam (see COMOR-D-25/207, 4 March 1966). The number of LOC priority targets in South China and North Vietnam decreased to 142 with the deletion of Nan Ning Airfield. For the period 10-16 October, surveillance

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[REDACTED]

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coverage was reported on two priority targets in South China and eleven targets in North Vietnam. The specific targets are underlined in Tab A.

b. Coverage of North Vietnam to detect the possible introduction or deployment of offensive missile systems (see COMOR-D-25/200, 23 May 1967 and COMIREX-D-25.3/2, 20 November 1967) is shown on the grid map at Tab B for the period 3-9 October. One [ ] mission was flown during this time frame and considered successful but has not been reported. No SSM activity was observed.

Report on Aircraft Activities--Cuba

(T-KH)

6. [ ] reported [ ] activities for the 11-17 October period as follows:

<u>Date</u>	<u>Mission</u>	<u>Results</u>
11 Oct	G046	Successful, 20.9% coverage

Recap

<u>Date</u>	<u>Mission</u>	<u>Net</u>	<u>Cumulative</u>
4 Oct	G045	20.5%	43.7%
11 Oct	G046	20.9%	57.9%

7. [ ] noted that for the 56-day period beginning 22 August 1968, seven [ ] missions were flown over Cuba and provided 84 percent coverage of the area. During this period 137 of the 162 targets in Cuba were covered completely on cloud-free photography, not including the most recent mission on 11 October 1968.

Section II (NPIC Report)

Mission Highlights

(T-KH)

25X1A 1. [ ] provided a résumé of OAK reports on Mission 1048-2 showing highlights as follows:

a. Cheng Chou, China. A probable suspect advanced weapons related facility (SAWRF) is identified under construction, 10 n.m. east-southeast of Cheng Chou and about 300 n.m. south-southwest of Peking. This is the ninth SAWRF to be identified and the fourth outside of the Shuang Cheng Tzu area. It consists of excavations 600 to 800 feet long and 80 feet wide that have a pattern and size resembling those of known SAWRFs.

b. Shih Chia Chuang, China. A newly identified suspect advanced weapons related facility (SAWRF), the tenth to be identified in China, is located 6 n.m. north of Shih Chia Chuang. The new facility, designated Shih Chia Chuang SAWRF North, is 8 n.m. northwest of the original Shih Chia Chuang SAWRF, now designated Shih Chia Chuang East. The new SAWRF, which appears to be complete, was built on the site of the original east entrance to the Old Walled City of Changting.

c. Dolon Airfield Southwest, USSR. First identification of a regiment of BADGER aircraft at this airfield.

d. Egypt. First identification of construction of new runways and/or runway improvement at Bilbeis, Cairo West, Jiyanklis New, and Ras Gharib Airfields. This construction activity is part of Egypt's continuing program to reduce the vulnerability of its Air Force on the ground through the construction of new airfields and improvement of existing facilities.

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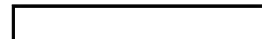


3. BUMPY ACTION Mission Q809 provided coverage of Hanoi showing that hardening of command and control centers is under way in Hanoi. The degree of hardness accomplished is greater than that previously observed.

4. BUMPY ACTION missions of June and September 1968 reveal that prefabricated concrete slabs are being used as probable taxiways or parking area servicing material at Haiphong/Kien An Airfield.

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Section IV (Action Items)

Need to Emphasize Coverage of China with Next KH-4

(T-KH)

1. The DIA member, referring to the appearance of the ninth and tenth possible SAWRFs in China, suggested that ICRS give particular attention to coverage of Communist China with the next KH-4. [ ] noted that we are just getting into the good weather period for China and was joined by [ ] in urging that ICRS emphasize this coverage, as suggested by [ ]

Project ARGO--Satellite Coverage to Assist AID

(T-KH)

2. The Chairman reviewed for COMIREX the origin of the AID request, forwarded to COMIREX by Dr. Steininger, the Chairman of ARGO, to get photography of Chile. [ ] explained that the severe drought conditions anticipated would have a direct and major impact on the AID budget. He reported [ ] Coverage had been analyzed by NPIC and, based on a briefing presented by NPIC on 16 October, the PIs had done a remarkable job in a rather alien field. The Chairman advised that the conclusions are that Chile is in for a long drought. ICRS was urged to study how it could obtain additional photographic coverage of the area during the present crop growing season which lasts until approximately mid-December.

*see published article on "Replication" file*



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Section V (Status of Recent COMIREX Papers)

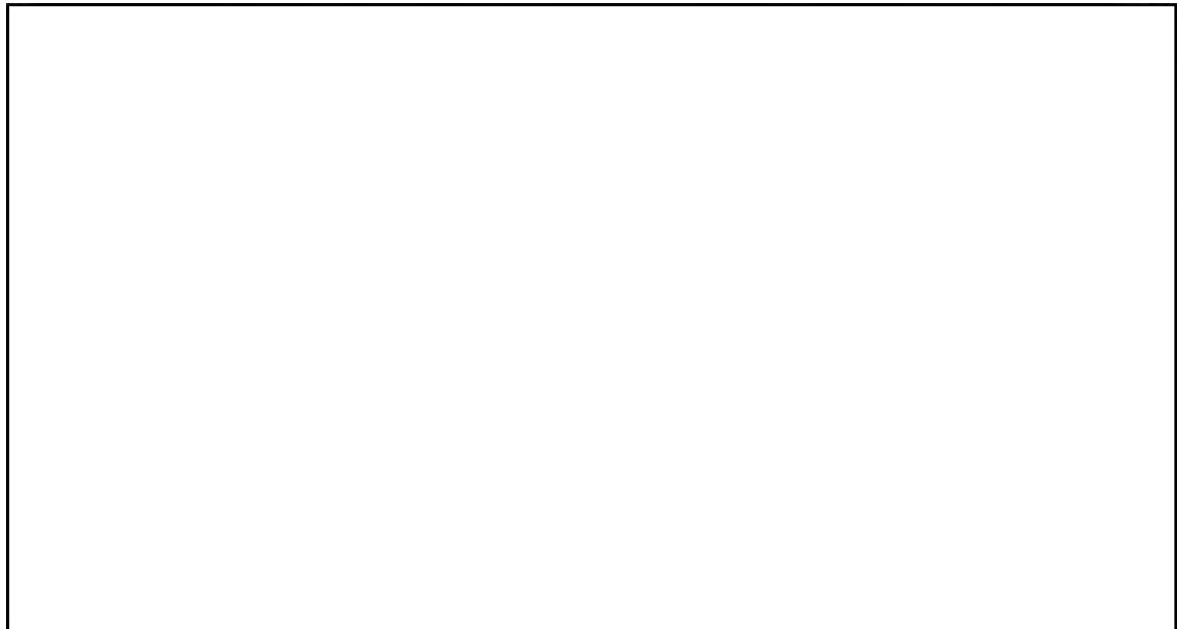
Guidelines for First- and Second-Phase Reporting  
(COMIREX-D-31.1/2)

(UNCL)

1. At the request of the Chairman, [redacted] reviewed the background and purpose of the paper placing emphasis on the fact that it provides guidelines for developing procedures as compared to implementation. [redacted] agreed with the Chairman, EXSUBCOM, that full implementation may be a way downstream, depending on how fast all of the problems preliminary to successful implementation can be identified and successfully solved. Following deletion of the word "management", page 3, para 3, line 2, COMIREX-D-31.1/2 was approved.

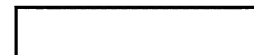
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[redacted]

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[redacted]

Acting Executive Secretary

Attachments

Tabs A, B, & C

- 25X1A
- Copies 5, 6      State TCO
- 7      DIA TCO [redacted]
- 8, 9, 10, 11      DIA TCO
- 12, 13      OACSI TCO
- 14, 15      ONI TCO
- 25X1A            16, 17      AFNIN TCO
- 18, 19      NSA TCO      19      [redacted]
- 20, 21, 22      NRO TCO

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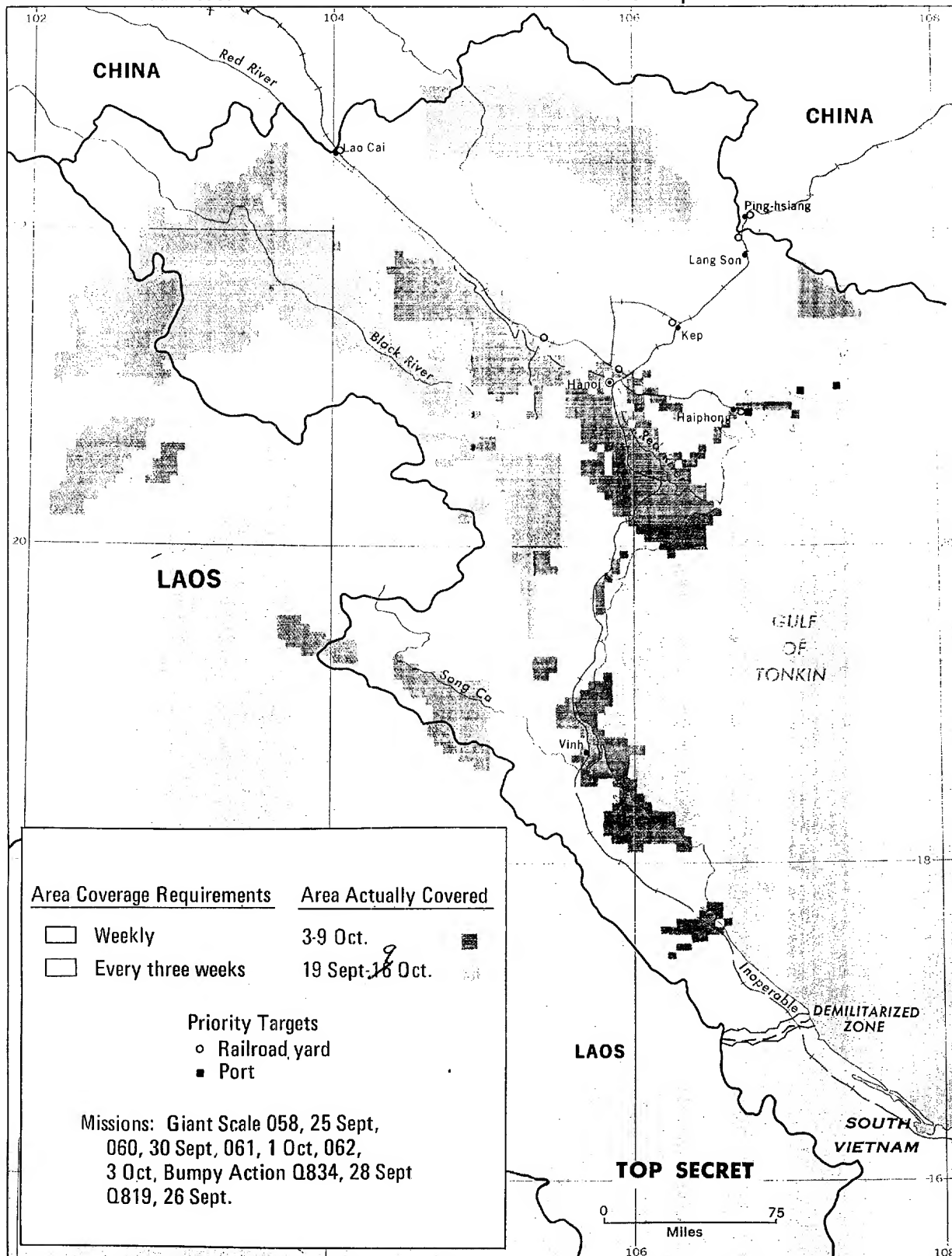
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# High Resolution Coverage of North Vietnam

(80% or more cloud-free)

Date of Report: 16 October 1968

Tab B



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3 TCO DCI Liaison Officer, SecDef  
4 Dr. Donald Steininger, Executive Office Building  
23 [REDACTED]  
24 DDP TCO  
25-27 CIA COMIREX Member  
28,29 Ch/ICRS  
30 Special Center TCO  
31 ONE TCO  
32 IRS ReqBr/RecceGrp  
33 OBI TCO  
34-36 D/OSR  
37-46 NPIC TCO  
47 COMIREX Staff [REDACTED]  
48 Ch/EXRAND  
49 D/IAS  
50 TSO CIA  
51 DDS&T [REDACTED] 25X1A  
52 ASA/DCI/NIPE  
53 D/OSI  
54 ExSec/SORS/OSI  
55 D/ILSS/DDS&T  
56 D/OSP  
57 D/OEL  
58 D/SA  
59 D/O/OSA  
60 Intel/O/OSA  
61 D/FMSAC  
62-66 Ch/COMIREX

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